

August 12 - Sept. 6, 1925;  
Rio de Janeiro, Brazil,  
and vicinity

#1 Ilha Paquetá, Aug. 19, ~~1925~~  
littoral

2 hictheroy, Aug. 22, littoral

3 Ilha Paquetá, Aug. 23, "

4 Pedra da Itapuca, hictheroy,  
Aug. 24, littoral.

5 São Francisco

6 Conto do Rio, hictheroy,  
Aug. 26; littoral

7 ~~Up river~~ Ilha Governador,  
Aug. 27; up river.

8 Off Ilha Governador; Aug. 29;  
oyster dredge <sup>depth</sup>  $\frac{5}{11}$  meters.

9 Off Ilha Paquetá; Aug. 29;  
boat oyster dredge, <sup>depth</sup> 6 meters.

10 Off Ilha Paquetá; Aug. 29;  
boat oyster dredge, <sup>depth</sup> 4 meters

11 Off Ilha Paganeta, Aug. 29;  
boat dredge

12 Ilha Governador, Aug. Sept. 1,  
tide flats.

~~#~~ September 9 - Sept. 16, <sup>1925</sup> at Santos  
Brazil.

# 13 Ponta da Rio, opposite  
ferry, Santos estuary,  
Sept. 12, littoral

# 14 Collected on mud dy, sandy  
beaches between canals  
# 4 and 5 Santos estuary  
Sept. 13.

~~#~~ September 18 - 26, <sup>1925</sup> at Villa  
Bella, Ilha São Sebastião,  
Brazil.

# 15 South of Villa Bella, Sept. 19.  
littoral

16 ~~snd~~ Stoney beach, south  
of ~~Hilla~~<sup>Lighted</sup> Bella, Sept. 20.  
~~Dardanelle~~

17 as in #16. Sept. 21.

17a Tow net haul in front of  
hotel ~~at Villa Bella~~<sup>between</sup>, 7<sup>47</sup>.30  
p.m. (#6 net) Sept. 21

17 b. ~~bobbinet~~<sup>F</sup> net dragged on bottom  
for lumpfishes, <sup>in front of hotel</sup> between  
cd 2.30 p.m. Sept. 21

17c Tow net haul in front of hotel  
9.45 p.m. (#6 net) Sept. 21.

~~16 a.~~

18 Fresh water stream, south  
of town. Sept. 22 <sup>Riv Jaguanduba</sup>

19 Freshwater stream <sup>Cs #18</sup> — Rio Jaguandiba  
 of town. Sept. 23.

20 In front of hotel, Villa Bella  
 Sept. 23.

21 Freshwater Cs # 18 and 19, Sept. 25.

22 Cs ~~#~~ 18, 19, 21, Sept. 26.

22 " Tow net <sup>over 3 feet</sup>  
 down <sup>at</sup> dam in front of hotel,  
 9 p.m. surface, Sept. 26,

22 " C" dotted 11 p.m.

22 " D" do. 1 a.m.

Oct. 2 ~~— 3~~ <sup>-3</sup> <sub>1925</sub> ~~do~~ <sup>#</sup>

At Paranaqua, Paraná, Brazil

23. Oct. 2, 1925, tide flat  
 collections

24 do. Oct. 3.

Oct. 4-10; São Francisco  
 do Sul, <sup>#</sup> ~~Santa Catharina~~ <sup>and vicinity</sup> <sub>Brazil</sub>

25. Praia Enseada, ~~do~~  
 Oct. 6, littoral

26 Fresh water stream, at Ribeirão de  
 Bananal, Oct. 6.

27 Ponta da Cruz, Oct. 7,  
littoral.

28 North end of Praia Enseada.  
Oct. 8

29 Fresh water stream at Ribeirão  
de Bananal, Oct. 8.

30. Praia Ubatuba in drainage  
ditches. Oct. 8  
Oct. 10-15 1925

#31. Rio Negro, Paranaí, Brazil,  
and vicinity

#31. Along banks of Rio Negro  
above ~~the~~ railway bridge Oct. 10

32. Along banks of Rio Negro, on  
mapa side, above ~~the~~ rail -  
way bridge, Oct. 11.

33. Fish trap in river  
Oct. 12.

34. I drainage ditches, Oct. 12.

35. Fish pot in river, Oct. 13.

36. Cast net collecting, 7-8 pm  
in rapids above railway  
bridge, Oct. 14.

37. Fish pot in river Oct. 15.

38 Fish pot in river Oct. 16.

Oct. 17-20, <sup>1925</sup> Castro, Parana,  
Brazil ad vicinity

Rio Iapo,  
~~River~~ near railway bridge  
Oct. 17.

40 At Hacienda Marumbi  
day's trip from Castro up  
Rio Iapo Oct. 18

41 Rio Iapo above Instituto  
Catedrist - Oct. 19.

42 Rio Iapo, near railway  
Bridge, Oct. 20.

43 ~~do.~~ <sup>#</sup> Oct. 21

Oct. 21 and 22, <sup>1925</sup>; Rio Negro,  
Parana, Brazil.

43. ~~Rio Negro~~ Along river,  
Oct. 21

44 ~~do~~ Fish pot, Oct. 22.

Oct. 28 - 31<sup>1925</sup>, São Joaquim, Santa Catharina Brazil.  
and vicinity  
45, Ponta da Cruz, Oct. 28,  
~~Ø~~ littoral.  
46. do Oct. 29.  
46 B. do Oct. 29.  
47. do Oct. 29.  
48. Drainage ditches along  
railway right of way.  
~~Nov. 4~~ ~~7~~  
Nov. ~~5~~ - 6. Bot. Florianopolis,  
Santa Catharina, Brazil.  
49. north end Praia da Fora,  
as Nov. 5, littoral.  
~~50~~ Nov. 10 - December 10<sup>1925</sup>, Montevideo,  
Uruguay and vicinity.  
50. Artificial lake in Prado  
with steam hauler <sup>6 miles</sup> E.  
51. Isla de Flores, Río ~~de la~~  
Plata, Nov. 13, <sup>gated</sup> <sup>1925</sup> <sup>7 fathoms; mud</sup>

52. 7 miles off E.N.E. of  
Pto. Nov. 13. otter trawl  
7½ fathoms, mud.

53. 5 miles N.E. of otter trawl  
, dr. Nov. 13. otter trawl  
7½ fathoms mud.

54. 4 miles S. of otter trawl  
8 fathoms mud

55. 5 miles S. of Isla Flores; a  
mud

56. Punta del Este, Nov. 15,  
littoral

57. Otter trawl, off Isla  
Flores. Nov. 16. 2 hauls,  
5 fms., mud.

58. 13 miles S.E. of Pontón Paro,  
off Banco Inglés, &  
Nov. 18, otter trawl  
7½ fathoms mud.

59. 10 miles S. of Pontón Paro, Banco  
Inglés, Nov. 18, otter trawl. 7 fathoms  
mud.

60. 15 miles S. of ditto.  
8 fathoms mud.

61. S. of ditto Nov. 18, 8½ fathoms, mud.

62. Punta Cmeta, littoral.  
Nov. 21,

63. 4 miles E. of Isla de Flores  
Nov. 24, otter trawl, <sup>otter trawl</sup> 7 fathoms, mud.

64. 6 miles N.E. of Isla do.  
8 fathoms mud.

65. Cr Barro de Santa Lucia  
Nov. 25, tide flats, fly boat  
~~boat dredge~~ ~~down lake~~ house,  
collecting

66. dr. shore collections  
~~down stream~~ down stream.

67. dr. fan boat dredge  
banks, 3 - 4 meters;  
mud <sup>Pa</sup>

68. Banco Arquimedés  
Nov. 28, otter trawl, 7 fathoms  
mud

69. dr. Nov. 28, dr.  $7\frac{1}{2}$  fathoms

70. dr. dr. dr.

71. A small stream tributary  
to Arroyo Miguelete, in  
Prado. Dec. 1.

Dec. ~~4-7~~<sup>1925</sup> 4 and 5, en route  
~~to~~<sup>Puerto</sup> Sa Paloma, Uruguay.

72 ~~Dec. 4~~ River at San Carlos,  
(tow net, )

73. Crabs caught on baited  
fish line river at San  
Carlos. Dec. 5.

74 Rocha, near at hotel,  
Dec. 5.

Dec. 6 - 8, <sup>1925</sup> at Puerto Sa  
Paloma, Uruguay.

75 Between hotel and light  
house, Dec. 6, littoral

76. Tow net haul from pier  
near hotel, ~~Dec. 6~~<sup>1925</sup> Dec. 6, 9 pm.

77 Tow net haul in surf on  
beach in front of hotel.  
Dec. 6, 9.45 p.m.

78 Far side of bay before  
hotel, Dec. ~~6~~ 7, littoral

79 West of light house,  
Dec. 7, littoral

~~80~~ <sup># 1925</sup> Dec. 9 - 13, montevideo  
Uruguay and vicinity.

80 Crayfishes from General  
Bazzaoni's place just  
outside of montevideo, <sup>Dec. 10</sup> ~~Dec. 10~~

81 Camasco Creek, ~~has~~ <sup>and vicinity</sup> Dec. 11  
<sup># 1925</sup>

82 ~~at~~ Isla Flores, ~~Rio~~  
Tigre, Buenos Aires, Argentina  
<sup>(worked over museum collections)</sup> Dec. 25.

Dec. 1925

Handwritten copy of these notes

Left with Bacon and his  
material in expedition files

United States

National Museum.

Bacon Scholarship

1925

Stations 1 - 71

Waldo L. Schmitt

Book # 1. From Aug 1925 To Dec. 1.

Smithsonian Institution

James + Esther Bacon

Walter sample 16 a = 1025

" " 18 = 1025  
shade at  $70^{\circ}\text{F}$  <sup>top of</sup> <sub>measures</sub>  $\frac{1}{20}$  height

La Mer/ la Mer dans la Nature  
la Mer et l'Homme. / 40 francs

: Par G. Clerc-Rampal

Préface de A. Berget

636 photo repro.

10. Hors texte en couleurs

16 " en noir.

316 Cartes en noir or dess. 145

Paris - Librairie Larousse

Capitan Argimon

~~J.E. Frauenthal~~ "Instituto de Pesca No. 1"

~~J.E. Frauenthal~~ ex "Diez" ex "Princess Royal"

Tons Bratos 284

" Red 97

Año de Construcción 1906.

Eslora 140 pies 42 metres 67

Máscara 23 " 7 " 01

Calado 12 " 3 " 66

86 N.H.P.

Construidos los Astilleros de A. Hall

Lda. Aberdeen

El Consultor Culinario por Pascal

Acaba de Aparecer 5<sup>ta</sup> ed. \$1.00.

Friendships: everything in this country especially Brazil (old Spanish hold over medieval when there were only friends & enemies, + no law order or security)  
It pays to make as many as you can + keep them.

Dentist in Castro my tooth for landlady as a favor.



REMARKS.

# 1. Aug 19 - 1925

Syngia common  
everywhere but hard to  
catch.

Xanthids everywhere  
two little Galathea  
like critters from soft  
bluish star, the large  
dendy rayed one.  
Amphipods washed from  
sea weeds. Collected  
around id, one or two  
crabs picked up on  
beach.

Cullinates from N.E.  
section north of Brown  
place on warm sandy  
flats, shallow between  
boulders & along sea  
weed, on small  
Portland yellowish  
from mud flats?

*Callinectes  
ornatus  
var.*

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date Wed. 19, Aug. 1925.

Locality, Paqueta, Bay of Rio

Bearings.

de Janeiro

Time of day, 9 a.m. <sup>2 p.m.</sup> tide begins <sup>or tide</sup> + flooding

State of sky, <sup>tide</sup> intervening

Temperature of air, tidal flats

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms. Shore coll.

Nature of bottom. Rocky, sand beaches

Direction of surface current, intervening, rocks

Force of surface current, fairly large,

Direction of bottom current, smaller size in

Force of bottom current, near the places

Name of vessel, this applies to most

To what service attached, of Ad, on west

Name and rank of commanding officer, side, yo

road to north in

Name and position of observer flat, and flag

where Repulse & Granger

were found

Doarathao  
Ente de Rio  
REMARKS.

#2 Aug. 22 Hickory  
Every thing saved but  
small representation of  
life on rocks by Gonto  
de Rio. Didn't have time  
to collect more. Found  
small fishes from Rio  
of little stream running  
through sand & but  
just enough brackish water  
strong cut off at low  
tide didn't seem to have  
any current, but I'll have  
to go back to look at it.  
Crabs came from little  
pool bet. two large rocks  
as did most of the stuff  
womatoes, tuyozza etc.

Green algae all over  
rocks amphipods from the  
& hydrona sydobia everywhere  
I think I have several of  
largest; pool had a temp.  
23% Cen, or maybe a shade  
over Water sample taken  
of pool. \*

Brasil

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date, Aug 22, Sat. 1925

Locality,

Bearings,

Time of day, 9<sup>15</sup> a.m. Low tide

State of sky,

Temperature of air,

in pool just tide 18 inch  
surface of water,

" at depth of 3 feet long  
fathoms,

" of bottom, = 23° C.

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

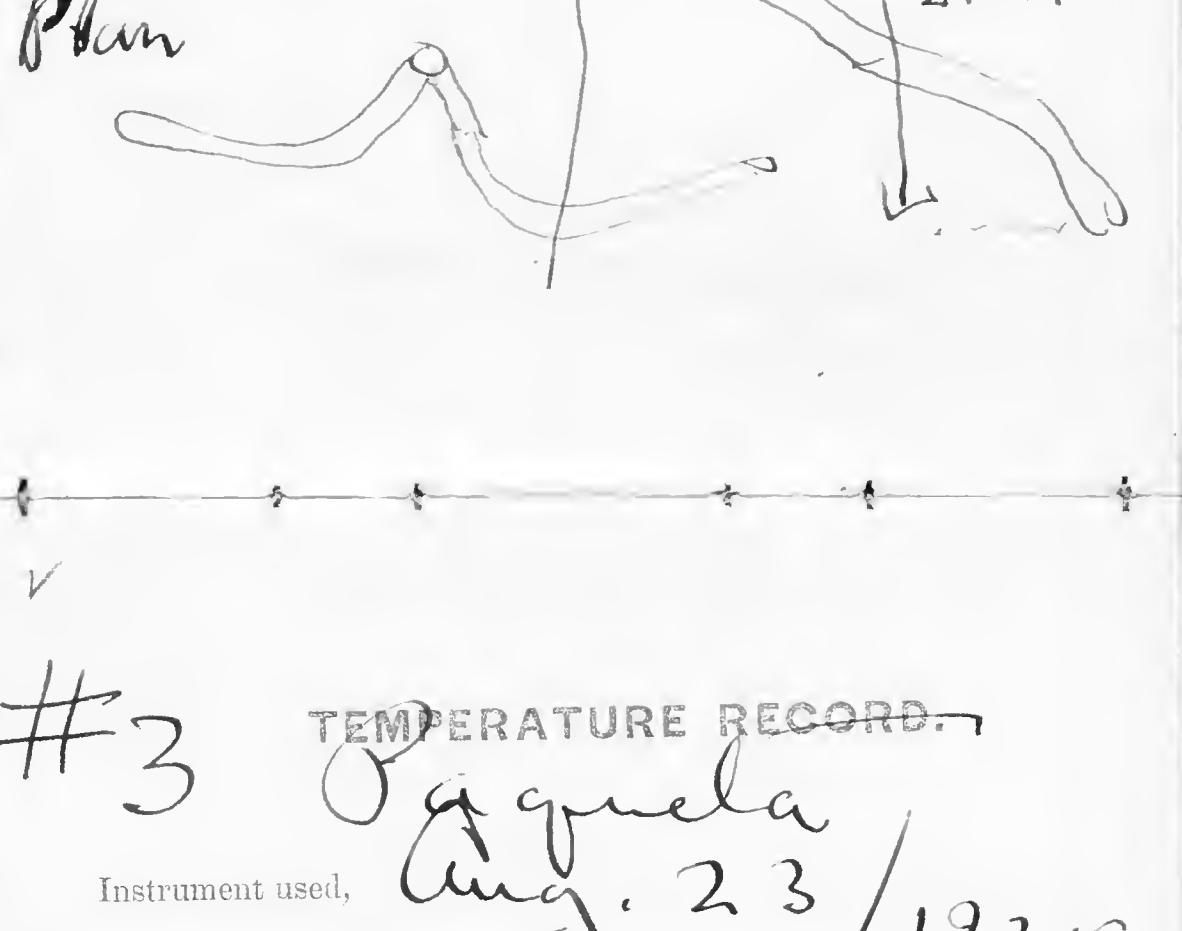
Name and rank of commanding officer,

Name and position of observer.

a boy watching  
me pulled an  
Exiphia magna  
out from rock  
crevice, same one  
in which pool  
was, but he  
failed to get  
it.

## REMARKS.

# 3 - Fiddler holes  
noticed on mud flat  
between large granite  
boulders on east side  
got a lot of small <sup>shallow</sup>  
fiddlers, and three <sup>1 short</sup>  
<sup>and 2 deep</sup>  
larger crabs latter  
went as deep down as  
2 feet. Tools used  
shovel. just failed at  
getting a third of the 2  
larger ones. Holes seemed  
about 2 inches in diameter.  
always had a lateral  
passage near the surface.



## #3 TEMPERATURE RECORD.

Instrument used, Aug. 23 / 1925  
Current number of observation,

Date,

Locality,

Bearings,

Time of day, 2 pm. ; of tide, low along  
State of sky, in turn in

Temperature of air,

" surface of water, 26 °C.

" at depth of fathoms,

" of bottom, mud beach has

Depth, in fathoms, completely uncovered

Nature of bottom, to day. small

Direction of surface current, fiddlers caught by

Force of surface current, sticking forceps a

Direction of bottom current, rod in ground

Force of bottom current, at angle to intersect

Name of vessel, hole about 4 fads

Name and rank of commanding officer, for w<sup>t</sup> of same below surface

Crab always came up near

Name and position of observer, in house & ready caught

with fingers.

## REMARKS.

#4 Aug 24.  
 Unfortunately got  
 over on Pedras da  
 Itapuca, after tide  
 had started rising  
 and so was unable to  
 get much other than  
 small stuff.

Saw a large  
 Barn Rotted Portunid  
 but failed to get him.  
 Current strong lot  
 of sea weed, but short.  
 Schistosoma a good  
 deal being stranded  
 from rock & thinning  
 hitting shore current  
 all bundled up.

## TEMPERATURE RECORD.

#4

Instrument used,			
Current number of observation,			
Date,	Aug. 24 - 25		
Locality,	Pedras da Itapuca		
Bearings,	Bay of Rio Nickeray		
along	Braz		
Time of day,	1.30 p.m.	of tide.	1/4 in
State of sky,	Clear sun		
Temperature of air	in little embayment of shore		
Oatted by side	surface of water,	25 1/2 C.	= 77.9 F
approaching tide	depth of	fathoms,	0.40
"	of bottom,	Rocky	
Depth, in fathoms,	0 - 1/4 }		
Nature of bottom,	Rocky		
Direction of surface current,			
Force of surface current,	Ph. 8 m \$5		
Direction of bottom current,	9 on 6.		
Force of bottom current,	With and others		
Name of vessel,			
To what service attached,	20 n. g.		
Name and rank of commanding officer,			

Name and position of observer,  
 Pedras da Itapuca

#5 Aug 23 - 25  
at 8 a.m. ~~REMARKS~~ <sup>in</sup> a.m.

Cambodia Province.

"Cirrig" - ~~gracata~~  
~~parapha~~

" " pretty  
(habitat) open all

In morning + at night 4.30  
or tide all night.

out in coarse, broken  
2 pieces, sand.

top layer 15° off. with larvae  
~~bottom~~ "tarnous" small

50 meters long

1 meter at end

8 in middle 24 min.

Can sample 60 things

at this place

10.40 am back at

Caprella must have been  
on attached Gulf weed  
literally by the bunches.  
Pieces of weed saved with  
algae. were stuck to algae  
dry and

here on re. Mt. Lanta 4000 feet

1026 a Salinity with Nas

Instrument used, Research Connell  
Temp. 72° F <sup>second reading</sup> 1026.3 ~~26.6~~

Current number of observation. Temp. 71.19° F

O.K. Rate, with B.F. 1024 to top of meniscus

2nd read. Locality, Temp. 22 2/3° C

falling?

Bearings,

Time of day, Start at: of tide. " 3 " "

State of sky, Colonia <sup>in</sup> side

Temperature of air, 9.26. 23 1/2 ° C

" surface of water, at surface on rock

" at depth of fathoms

" of bottom, by some rock. 11.00 72.3 1/2 ° C

Depth, in fathoms, 11.00 72.3 1/2

Nature of bottom, H.I. #3 = 6.6 3.0 0.6

Direction of surface current,

Force of surface current,

Direction of bottom current.

Force of bottom current,

Name of vessel, ~~Albatross~~ 1000 ft.

To what service attached, 23rd C. H. S.

Name and rank of commanding officer.

Col. A. 8.3 m/s

shade 1 degree

time 1 hour

2nd test = 8.4 degrees

#6 Aug 26/1925

REMARKS.

went over to get water sample in shear found it flowing ab  
On up shear side of ridge got a few fiddler  
fish holes in sand +  
some amphipods. saved  
a sand sample to  
find out how salt it  
might be; also water  
sample.

There were some  
worms there looked  
like earth worms in  
it.

few fiddlers from  
same sand.

Aug. 26

TEMPERATURE RECORD.

#6 Cmte de Re

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 25.5

" at depth of fathoms.

water off bottom. Sample B water 3-4 fms. deep

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer.

## REMARKS.

#7 Aug. 27. Went up river on Governor's road, shallow, muddy estuary big mud flats on either side, mangrove banks full of crabs fiddlers etc.

Large Callinectes in creeks. Had to meet Fisheries Society at 4 p.m.

Or could not put my specimens up. Hope to do so in a.m.

got lots of other debris + water sample.

No end of mud branches some paved, all over and through byssus & sponges among byssus in outside of lettuce mud

## TEMPERATURE RECORD.

#7 Aug. 27.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 24.9.

" at depth of fathoms, 2½ feet.

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer.

✓ Aug. 29, 1921. 11:30

REMARKS.

#8 oyster dredge

Sage de Tosa

6 meters { 10 fathoms  
= 3 fathoms

mud bottom shell

dragged 100 meters

off shore

2nd haul  
Cumphores and  
Alvarez, 2 tangiers

lost trawl net

got loaded with

mud.

Aug. 30 at

Pedra with

Orange + Green

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 24° ?

" at depth of 6 fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer.

REMARKS  
about today

12.00

\$4000

off 9 off 0 a.m.

near fortaleza

River but toward

Landing stage

Mud in bottom

Shells of the sea

sand in the

half / little

crab, starfish

+ rays of sun

+ very large

(Under the sea)

now under

water

water</p

**REMARKS.**

~~This~~ This time  
not made got  
stuck on whale.

**TEMPERATURE RECORD.**

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer,

✓ ~~+~~ 10 ~~Boat dredge~~  
REMARKS. 2.30 pm.  
Piqueta

4 meters deep

at a rock island.

Detached +

Ferret place

near school.

Many mussels

2 starfish diff sizes

Sandy bottom

✓ TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date, ~~Sept 11 1881~~

Locality, ~~off Piqueta~~

Bearings, ~~N.E. by E.~~

Time of day, ; of tide.

State of sky,

Temperature of air, 25° C.

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer,

✓ Bar dredge 3 P.M  
REMARKS.  
# 11117 miles off  
land near  
Brid near  
maddock

few shell frags  
soft blue  
black  
mud

✓

#### TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer.

REMARKS.

Below bridge collected  
over mud flats. Under  
rocks & sponges plenty of  
 latter several species  
 yellow, one purple &  
 white, granular with  
 studded byssus along  
 etc. tiny Xanthid  
 in cavities & cavities.  
 got two small bran.  
 gray black & translucent  
 gray turned.  
 shed dark night  
 heard more than I could  
 find! collected bunch  
 of sponge & debris for wash  
 at amphipoda.

" " 1st

H 12 below bridge  
 TEMPERATURE RECORD.

Instrument used,  
 Aug. 29th, 1.

Current number of observation,

Ilha Governor

Date,

Locality,

Bearings,

Time of day, 10.07 ; of tide, run out

State of sky, - of stream

Temperature of air,

" surface of water, 24  $\frac{1}{3}$  ° C.

" at depth of fathoms.

" of bottom, water surface

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Presidente "Z 11" Estado  
São Francisco Rio  
Teixeira  
Snr. Victorino Rei

Gomes  
Victorino Teixeira Gomes.  
50 meter <sup>sardine</sup> seine

Snr. Alexandre Roza  
Presidente "Z 1" Dist.  
Ilha Governador Federal

Charge of Fisheries. } Presidents  
of entire  
Confederation

19  
30  
31  
66/67  
67  
Lucien Juvenne  
"Pendant vos vacances,  
pêchez au bord de la mer  
Prix 12 francs. (Coll. Baudry de  
Saunier; E. Flammarion, éditeur).

as illes as

shops ~~des~~ ~~comptoirs~~ ~~de~~ ~~la~~ ~~mer~~  
~~mer~~ ~~et~~ ~~approvisionnés~~

monopole ~~de~~ ~~la~~ ~~mer~~  
consorzio ~~de~~ ~~la~~ ~~mer~~

La Pêche et les Poissons  
nouveau dictionnaire général des  
Pêches / par/ Henri de La Blanche  
préface par Aug. Duméril.

Paris, Librairie Ch. Delagrave  
has " 15, Rue Soufflot, 4<sup>e</sup>

mailler un filet.

Diccionario, ilustrado, descriptivo  
Valorado etc. / por/  
Benigno Rodríguez Santamaría/  
Cabo de mar de puerto de l.<sup>a</sup> clase,  
Conservador de la Sección de Pesca del  
Museo Naval.

Madrid Artes Gráficas "Matheu"  
Paseo del Prado, 30  
1911

Federico Schweizer

Jigdally mab.  
REMARKS.  
# Ilha Guanadine.  
12 feet water at  
old cabinet  
water temp  $31 + ^\circ C.$

water temp  
A rising tide  
Ruined good picture  
of hole in ground  
by taking off back before  
inserting slide. Got a  
good representation of  
jigdally wh pier where  
I was the other day.

#### TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, 12 m<sup>m</sup> of tide, just about  
State of sky, shortly after turn  
Temperature of air, running up slowly

" surface of water, temp + sample  
" at depth of fathoms, taken off  
" of bottom, old cabinet

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

" " "  
" "

" "



#14 Sept 13, 1925.

Collected on muddy sandy beaches  
between canals 4 & 5 Santor.  
and on mud flats about #5.

Davy Shore got his little  
Upogebias color of my tripod only much  
lighter. On mud flats <sup>#5</sup> under rock  
found an eel. and number  
of amphids + graboids <sup>Uca</sup>.

got a few ascidians attached to

sides of rock among worm tubes

in shallow tide pool.

Saw a brownish alheid in

small pool under rock but failed

to get it was darker than geliaz.

Borgz got a few Ciris (Portunus)

and number of hermits.

From Parsloe: Santor <sup>Sept. 11, 1925</sup> Fisherman poor  
organized, price of fish high.  
Shrimps run from 4-10 \$000 per kilo & up  
as high as 20 in times of scarcity  
Air prices run from 2-3 - 7 the latter  
being the high figure. Fishermen are mostly  
poor & have only canoes, motor boats are 30-40  
M.R. per hr.

## TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom.

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached.

Name and rank of commanding officer.

Name and position of observer.

Sept 9, 1925  
REMARKS.

#15 South of Villa Belly

Sau Sebastian

Collected along beach to south  
Villa Belly, sea-weed washed  
for amphipods. One pe. of gaff weed  
attacked had number of *Ephalurus*  
tuberculatus forms + several shrimps.  
2 of about same size were blackish, maybe  
clove brown with white marks in middle of  
back, rest rose + pointed + lateral margins  
whitish, dirty ( ) next to largest one  
red brown with white marks in middle of  
back; largest one sort of brown under  
fronts brown + whitish marks in middle  
of back. Rose brown rest of fading into rose  
greenish dullly, rest between larger +  
white pointed in color. but others white  
points. // 5 tiny shrimps 2 with spines on  
carap. (1 = blackish bottle green with last 3  
seg. of abdomen + tail fin dirty transparent  
hair brown. other = speckled sandy sort of  
dull grey + clove brown spots mixed in color they  
would produce) two with short. = olive  
x yellow, one with slender sort.  
all over  
transparent with double stroke of  
olive yellow, mixed with little chace or  
yellow p; latter + tail fin ochreous rufous  
with transverse, clear spot on base of latter  
as indicated. // little hermit with sage  
green & blue markings spots, a narrow band with  
wide borders of dirty whitish tinged with same  
color, but just degree lighter than dark spots.  
3 small spider crabs due to muddy green algal  
color & like sandy alga. A *Argulus*.

Hazel fingers  
white delicate  
dark fingers small hand simila  
legz cinnamon

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

berlin blue with

Locality,

enough brick red

Bearings,

spots to give at little

distance let's take purple &

china blue color

all, noon, all day

Time of day, ; or tide, collected with morning

Cloudy, threatening low tide at 7:30

rain tide, cold coming in by

Temperature of air, 4.36

surface of water,

at depth of

fathoms.

of bottom,

Done

Depth, in fathoms,

Tenth at 6.30

in 25

Nature of bottom,

water at surf. 7½ F

Direction of surface current,

air 69

Force of surface current,

air at 7.30 71° F

Direction of bottom current.

water, damp & soiled

Force of bottom current,

#15a

Name of vessel, At night used trumpet

To what service attached.

Name and rank of commanding officer.

of all kinds? crust. larvae

fish larvae amphipods + some

ostracodes one world think

the amphipods were numerous.

net dragged back & forth few

tires 2 - 2½ feet apart 10 P.M.

#6 xx net. Bur. Fish.

1925

#16 Sept. 2<sup>nd</sup> REMARKS Collected  
on dry beach, point of  
bay beyond where we were yesterday  
north of. Got number of Crangons  
and one Upogebia

Pontoniid chitin pale salmon dotted legs palest  
of pale olive buff. Ovaries + eggs mass showing  
through bright cadmium orange to orange not all solid one color  
~~alimentary tract in body sort of green-stove brown-black~~

~~Upogebia~~ Synalpheus pale buff pink with trace of  
cinnamom mixed in edges of  
distal half of palm + all margins of fingers with  
fine line of bottle green, alimentary tract as in  
preceding.

Upogebia, now in dish mottled pea greenish underlaid

with tinge of gallstone yellow  
first seg + telson without yellow, in both anterior  
hands dotted pale ochreous buff which can  
be seen when caught. Under stone in crevices in  
gravel + sandy zone mud dry mouth with  
coarse gravel. Carapace also without yellow chin with  
yellow & from eye to mouth

legs all white light  
Crangon #A. Dots of blackish bottle + sage green  
hands mottled with pale blue pink with  
finer mottling + blacker legs rest of salme esp  
out. third of abdominal ventrites white, not  
esp marked off irregular line of white same  
line of tail fan through last 3/4 of pale orange  
rapids 2nd + 3rd 4th spine with black  
spot near hinder margin, flagella not so cinnam.  
+ blue. Fins, which also seem to suggest dyes of  
blue at times. in parts vertical bands white pink  
in black areas white area narrow in first few  
miter very wide behind half of last segment  
edge of tail pale tan cream & cream again.

Crangon #B. Much like preceding but general  
color very dark black green like maple green, main  
through no blue here in green (black bottle green) blue  
there are tinges of reddish purple or indigo spines  
which are mostly black but with individuals, like the black  
part of indigo blue narrow margins. Tail fan  
all blue, black little white on margins, and 2 + 3rd spines  
hands white mottled rather definite + cinnamom pink  
as compared to black green which is faintly speckled with  
dirty yellowish white blacks dots on 2 + 3rd spines as  
in preceding. hairs of tail fan like red tail center  
orbital hood quite white around orbits compare with  
tinge of lemon yellow red dirty white grey tail fan beautifully  
mottled to blue

Crangon #C abdomen carapace + frontal  
appendages oil green tail fan + flagella lighter  
hands darker = bottle green more in fact color  
from hinder end gets darker forward to hands.

Crangon #D Color very much like B. as a  
dark blackish green crangon but without white

very little white scarcely any spots at base of  
tail fan not black spots laterally, only orbital  
hood orbital body mottled like preceding but  
less effect darker like "B." little blue no white

red on distal half of tail fans practically  
none on nose.

Petrolisthes distal joints at least of 2nd  
maxillipedes bright ultramarine blue, hairs of  
same orange of bottom.

Depth, in fathoms.

Nature of bottom,

inner part face of carpus = pale coral red

Direction of surface current,

& at base of first edge of tale = chrome blue

Force of surface current,

fingers on top

Direction of bottom current,

body of crab rest of the black part of

Force of bottom current speckled with (finely)

apple green; tip of movable finger with faint

Name of vessel,

Time of day

Date

Atmospheric conditions

Wind

Clouds

Temperature of water

Air

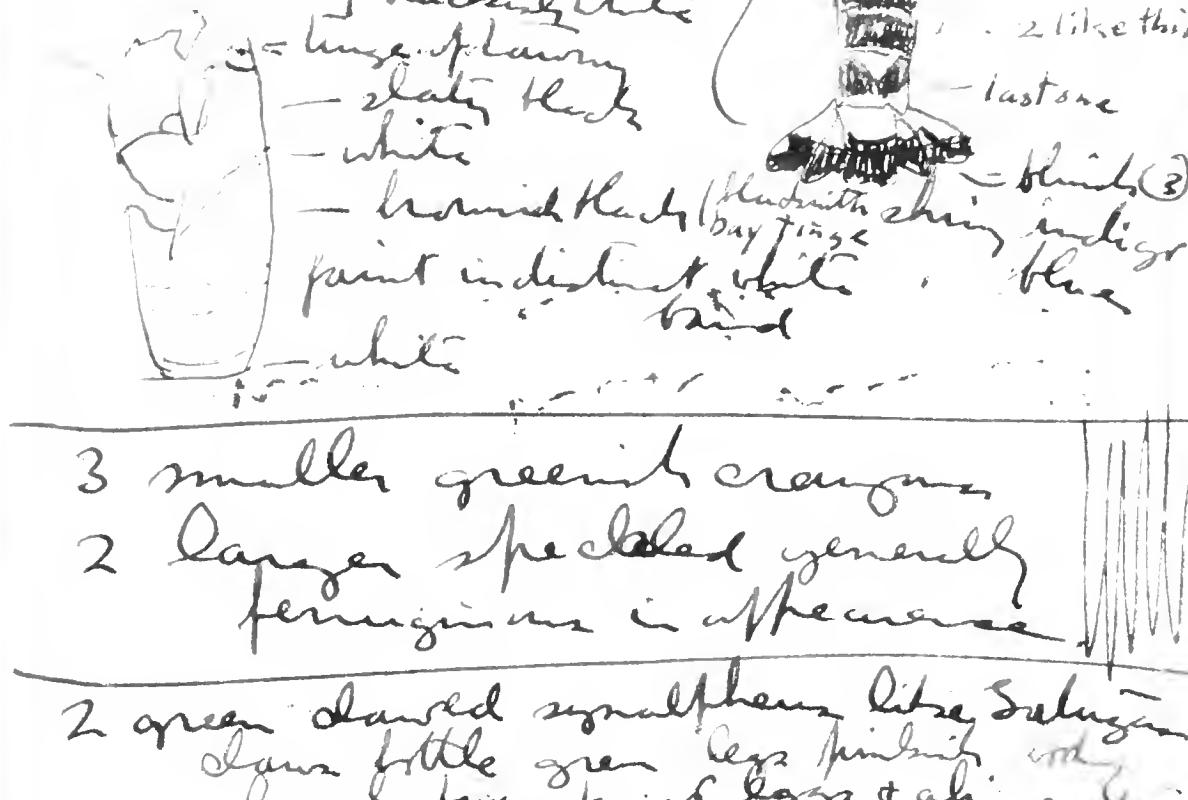
Water

#17 same place as 16.

2 spec's REMARKS Sept. 21/25

Orange same as one noted and #15 -

1 = more yellow  
eggs ferruginous ① Carapace  
stippled all over greenish  
shells



3 smaller greenish crabs

2 larger speckled generally  
ferruginous in appearance.

2 green dappled synalpheus like Salazar  
large white green legs pinkish and  
large brown pink legs & white but  
giving it an almost dappled green  
appearance appearing a distinct Bay.

1 with all green legs

1 Myraea shed both claws.

Tail fans dark abd. red other color abd.  
transparent but above body colored due to eggs.

#16 Continued Hydranthe a Libyana

legs olive & his green, dark  
with white stripes tan inner & outer  
sides tip of claw black, but just before  
it spot of reddish and orange. Flagella red  
stern dark pink of dragon blood red. distally  
antennula peduncle upper. distal m. of  
last joint = azure blue?  
Blends darker and paler from ground  
color with spines? spots of yellow orange  
flagella peduncle upper.

#17 a tow net haul

Sept. 21/25 nos #6 xx

TEMPERATURE RECORD.

on part of hotel pier

Instrument used,

7 - 7.30 p.m.

Current number of observation

#17 b. with bobbinet

Date,

dit net dragged

Bearings,

along at bottom

7.00 - 7.30 p.m.

Time of day,

#17 c 9.45 p.m.

Temperature of air,

still north wind

surface of water,

like pieces of slate

at depth of fathoms.

low tide quite

bottom of

Depth, in fathoms, low

Nature of bottom,

point.

Direction of surface current,

Force of surface current,

Direction of bottom current,

#16 b. a second haul

no service attached

Name and rank of commanding officer.

Matthew tried to

see if Hunter Daugard

find luminous organisms

in it

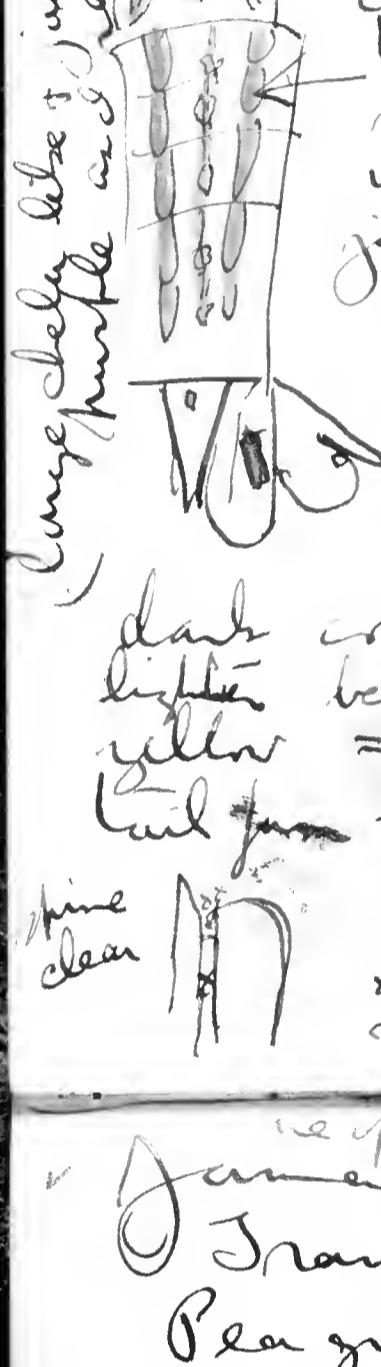
Collected REMARKS by stream for

fresh water shrimp of several species found one with yellow mark. Climbed out of 8 oz bottle traveled  $1\frac{1}{2}$  meters  $\frac{1}{2}$  across bottle neck across wood floor & through hole in wooden partition  $\frac{1}{2}$  over dry clay tile under door & across granite flag walk in hot ~~hot~~ sun & was found on ground dead, belly dry.

more colorful than yellow  
thin  
tail  
long

below the line = light  
can have bright yellow & brown mottling in abdomen rest faint yellow speckled

sketches of the lizard's body showing stripes and tail.



Carapace orange green &  
top submedian in abdine  
rest fainter yellow speckled  
with dark color. Below with  
just a fleck of yellow at base  
in ver blade of fan with  
oblique yellow spot  
abt. with a tiny one next  
spine. The last 4 + 5 also  
speckled with bright yellow  
color = <sup>on Carapace back of</sup> tinged with clear brown brown  
below dotted line = hazel transparent  
= lemon yellow  
= dark of dragon's blood ~~and~~ and  
transparent  
x = wider  
\*\* = maceous purple. legs. drag.

rest of blade = windings blood red  
flagella colorless

rest of body fair yellow green with  
some cause some orange

Translucent light green

TEMPERATURE RECORD.

Pear green with a black margin  
green line across abd. margin  
of 1st, both margins of 2nd & hinder  
margin of 3d abd. somite, the  
somite behind the edges of tail fin +

Instrument used:

Current number of observation

Date,

Wilson managed with  
Locality, Corapype with tracings of the  
blue Bearings black green  
Tips of fingers + articulation

Time of day of joints of tide, range check  
as are hairs Oct. vertical stripes  
State of sky, spines of shellfish blackish brown  
Temperature of air, number giving them darker appearance  
surface of water.

than ~~bottom~~ surface of water, of ground at  
" at depth of fathoms,

banks and of which turns form  
 Nature of bottom,  
 at right angles to frontal margin  
 Direction of surface current,  
 red = maroon  
 Force of surface current,

A hand-drawn map of the British Isles. Overlaid on the map are four handwritten labels: "Direction of bottom current" at the top left, "Force of bottom current" in the center-left, "Name of vessel" in the center, and "To what service attached" at the bottom left.

Helped male pea greenish  
becoming sort of China  
bluish dusky articulations  
sort of orange ochreous  
as in distal end of tibiae and tarsi

*Acanthus* continued  
REMARKS.

• 1st wintered spot

red middle one of major  
blue inner margin of antennular peduncle  
blue continued on scales as line  
of dots.

juv. orange brown  
grey "vera long" stomach  
showing through olive green paler  
skin yellow. in darker tan  
brown. eye darker with brown above  
around nostrils, back finely speckled  
with black.

light stripe down middle  
of back. small live one transparent  
with small dark green speckles  
giving it a duskyish appearance  
~~the~~ median dorsal stripe spreading out  
on each white + little line up  
curve of spine yellowish with  
a little black speckled stripe little wider  
than live buff faint from a spread  
out with little blue yellowish color  
prob 2/3 flesh, streaked eggs  
showing through & entirely  
dark body of abd. color N  
dead large spec. sides will  
maybe a ~~resorting~~ of light colored stripe  
like on back, but more a sort of mottling  
✓ Tiny shrimps, almost clear transparent  
peach blue speckled scattered except on  
bottom & tail fan which is ~~spotted with~~  
margined with pale tawny its only color  
blue spots little larger in groups  
at top & sides. Line of back

Date, Sept. half of intestine Bay of  
Mass under <sup>the</sup> antenodal fold yellow  
~~yellow~~ but much pale. The two  
antennal flagella even pale &  
distally either grey, cream  
grey, black center, black strap at  
middle, outer clear margin with  
State of sky

State of sky, suggesting of how  
Temperature of air,

Depth of bottom  
in fathoms

a order

carpus + base of forelimbs of side  
only part of these appendages  
noticeable just little dark colored  
don't notice any of these with eggs

Depth, in fathoms,

---

Nature of bottom

Sawed a capthurus of this day  
with ~~the~~ pea green eggs  
Direction of current  
with more thick + heavy speckled

Force of surface current  
with red ~~dark~~<sup>dark</sup>, finger one  
flecked abd. specimen with  
Force of bottom current blue red stripes  
Names of vessel

To what service attached *faintly in blue*  
Name and rank of commanding officer *1st Lt. [unclear]*

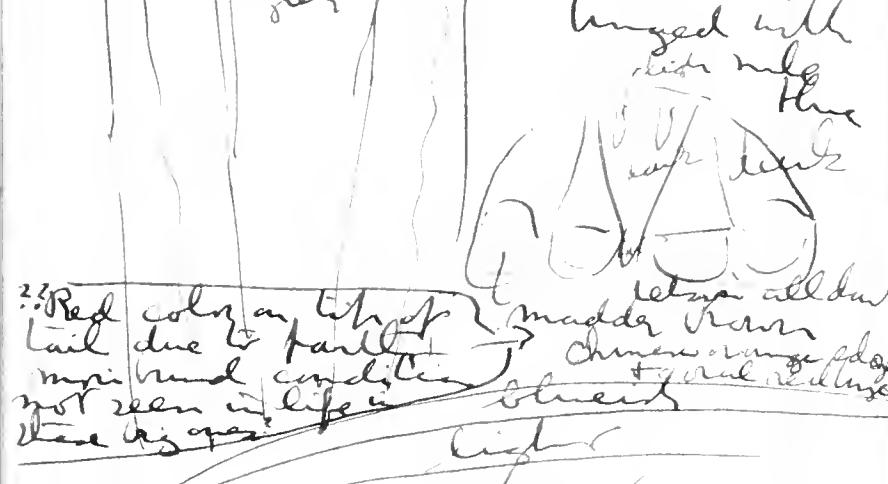
Name and rank of commanding officer, *E. C. G.*  
Name and position of observer *Midwife & west reddish.*  
Sept. 22-1925 #18  
Wale sample taken out in  
front of Steel. Lvtide  
beginning of flood. Water  $77\frac{1}{2}$ ° F.  
Air.  $76$ ° F.

#14 Set 6. 23 fixed  
REMARKS.  
Same shear again

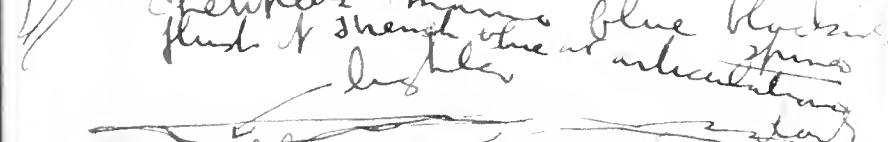
she

got 2 large ~~jasper~~<sup>spec.</sup>  
are quite a greenish blue  
blue x pink green

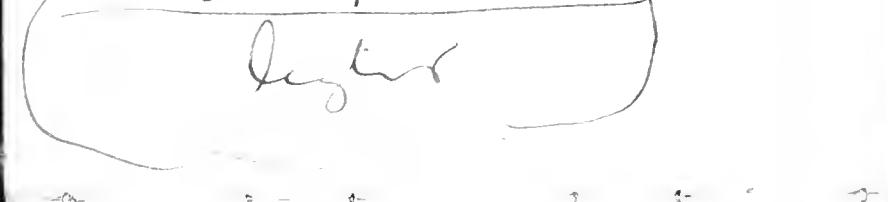
broad stripes



A handwritten graph on lined paper. The vertical axis is labeled "Demand" and the horizontal axis is labeled "Supply". A downward-sloping demand curve is drawn, starting from the top left and ending at the bottom right. An upward-sloping supply curve is drawn, starting from the bottom left and ending at the top right. The two curves intersect at a single point in the center of the graph.



A hand-drawn diagram of a brain, viewed from above. The diagram includes labels such as 'cerebellum', 'brain stem', 'midbrain', 'diencephalon', 'cerebrum', 'left hemisphere', 'right hemisphere', 'cerebral cortex', 'white matter', 'grey matter', 'ventricles', 'cerebrospinal fluid', and 'meninges'. A bracket on the left side groups the cerebellum, brain stem, midbrain, diencephalon, and cerebrum under the heading 'brain'.



<sup>dark</sup>  
Legs of <sup>dark</sup> ~~white~~ profusely  
dark blue above lighter below

Wensis TEMPERATURE RECORD.  
Wensis extra much fall ready  
Wensis large  
Instrument used,  
Keekit couple of Atya's over

Current number of observation  
night in camp with tourist  
Date.

<sup>base</sup>  
sawd + white grains 47  
Locality. At a hill west

~~Beatings~~ dark green like dark

under rocks assumed  
at Time of day <sup>of tide</sup> ~~and~~ varying slightly

Whitish stippled back became

wood brown downy midge + cream  
Lg 1/16" Surface of water, strip wood 3 m in

in largest spec. at depth of <sup>10</sup> fathoms black (mainly)

more or less either side of median stripe, rest of animal the largest size

With depth, in numbers,  
With matting,  
as much black  
as scarce of black.

in ridge mottling = more reticulate  
in <sup>direction of surface currents</sup>

Force of surface current.  
Leys dark when bumber legs the  
bottom current.

Force of bottom current.

~~name~~ <sup>Name of vessel</sup> little shrubs of 2 kinds

To what service attached  
one lot yester h̄ns. with grey  
Name and rank of commanding officer

*Rack marsh* has very little blue &  
green appearing + dry grass below

Name and position of observer and station

The last quite green in  
dark wavy blue wavy green

strongly olive-green-black - the  
marks on back of abd. == =

#20 Sept. 24 - 1925

- Sept. 23 -

#20

REMARKS.

Portunid from beach

General color sort of sage green & hair brown with

Gallinectes ornatus — porcelain white with

Wax yellow

Teeth white, chisel white tips toh

+ front dragon

> blood red.

Cheliped largely same as general color

of carapace, hair brown & greenish tan

spines nearly all porcelain white

their kinda margin + and margin of carapace

between them close brown, inner face of

hand + carpal articulate line blue

fixed finger all white; movable one

white

Red to brown with white red.

ambulacra

and red to scarlet.

china blue stippled stronger distally

back on nerves to hairy line

paddle large like cheliped margins of

joints by anterior arms calmar, prox half

of paddle + adjacent joint white

distal half sort of raw venner + gall

blue yellow. transparent in case of white

yellow of paddle. Under parts white.

Sept. 24-25 Fisherman brought

me 2 well developed Othersi + 1

frame smd + a Jamaican

Set up + were of a general

Vandyke brown color the ones

over laid with Bistre or Siva, the

other speckled underneath with

madder brown. These darker

colors were ~~general~~ & mottled

under all being a sort of gray

& cream buff color which showed

through in hairy lines on carapace mainly

at ~~metamorphosis~~ streaky especially

on sides and on jaws + 3d abdo.

Smile extending down on sides along

Locality, to top line of epimera. The

Bearings,istic edge had a blue, black

(dark) green chevifd; the other

black brown, red black

rest + small Bista, Vandyke

brown legs of both major

less transparent of legs suggestion of

green marine blue spotting in bands

of second pedaled front brown.

? more russet in color masked

else mottles of body almost white with

few dark mottles of brown on under

part large delta mottled with tan

part of bottom marine blue light on

rest + outer margins + fingers

in a faint pea (blush) green ground

Direction of surface current, Force of surface current

portions of 2nd + 3rd behind

legs green much darker than on

other part of body + blacked

Force of bottom current.

The jamaican have long striae of

maroon blue black + little green. Other

of Bill has lower lateral purple

bright yellow edges mottled like red tan

shrub. Name and rank of commanding officer

Yellow in red way very green for

Length of body + pub. Legs China

Name and position of observer

blue mostly delta purple purple

light (or tan) purple with tips of fingers

+ basal half of hand are with yellow

white inside but distal end of fingers + prox

end tan a mottled spot. Same delta marine

blue pointed out to white on spine and

red purple margin of pubis curving ad-

short with distal grad of maroon. Telson and

# 21 Sept 25 - 1925

REMARKS.

went back to stream to see if I could find young jamaicensis, but thought I looked at the all after noon & in a.m. of 26 could make much out of it. Got however 3 sun rayed jamaicensis with black eyes like we noted under # 18. And one striped brown one like we had been offering around for last night red-brown. Bottled in vial. This can be the red ones have just recently shed & the blue greenish ones with yellow stripes are about ready to shed. It would ray w because in day, red-brown has yet blue.

~~After~~ great juntas can sing therefore almighty fort things the

are 6-8 high + foot away. and walk as well as 4 pointed animals.

\* = Rio Taguanduba.

# 22 Sept 26 - 1925

went back to stream for oligochaetes. Soederwall's Desmodill quite a number. Also, incidentally got seven shrimp, one cross banded jamaicensis like one under # 18 smaller jamaicensis. I have seen which I think is this species (But what size the long banded ones.) Two acanthurus, also smallest I think so far rost + red stripes on sides on carapace definitely identify it

{ Also an Atya with light stripe down middle.

And 3 characteristically specified oltersii with dark cross bands on hinder margins of first 3 abd. somites. Darkest and most conspicuous band on hinder margin of 3d. with charae. clear transversely rectangular area in front of it.

Sept. 26 - 1925 # 22

Clear sunny day water

TEMPERATURE RECORD.

Depth in Rio Taguanduba where we collected. =

Instrument used,

69.75°F

Current number of observation.

Date

Water sample # 22-A.

Locality.

Bearings.

Surface, 1 ft. of water.

Time of day,

Air. 7 1/2 ° F. At 5.45 pm.

State of sky,

Water. 74 1/2 ° F. Temp. in front of house =

surface of water, 78°F

at depth of 1 ft. of water.

Just after turn of tide

Tide high just beginning

To ebb. 1.30 p.m.

Depth in fathoms.

Nature of bottom.

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

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Direction of bottom current.

Force of bottom current.

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Direction of bottom current.

Force of bottom current.

Name of vessel,

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prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

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prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

Force of surface current.

Density 1023.5 at Ob

Direction of bottom current.

Force of bottom current.

Name of vessel,

H.T. = 8.4 on last

prism.

Direction of surface current.

#23 + #24 both Paranagua, Brazil.

tide flat collection

REMARKS.

#23 Oct. 2, 1925

Collected <sup>before</sup> about Can Barn  
of tide of Paranagua.  
Got a few small fiddler  
crabs & a few small things, they  
were all to pieces. The  
Graziers in the bottle with  
them are part of Oct. 3  
collection. I wish I have  
given #24 Oct. 3/25

Among its hauls with  
tide to keep separate  
from #23 were 3 amphids  
one with little Pinotheres  
from Villa Bella which have  
not come in my with yet.

The square graptoids in both  
#23 & 24 were from higher up on beach  
than the crabs in #23 well back  
in puddle or almost dry land.  
The Portunids are only from #24

Things are separate except for

Graziers & Gelias from #24

which are with #23,

#23 Oct. 2 clear dry fair

large clouds <sup>high</sup> ~~overcast~~ <sup>gloomy</sup>

TEMPERATURE RECORD <sup>air</sup> ~~water~~ <sup>dry</sup>

#24 Oct. 3 Overcast, rainy <sup>high</sup> ~~overcast~~

Instrument used, drizzle in noon long

Current number of observations.

Date, Oct. 2

Locality, Paranagua

Bearings, N. W.

Time of day, 12 M.

State of sky, #24 tide flats N.

Temperature of air, last pier to N. W.

at depth of surface of water, Paranagua rocks

of bottom covered with dead

Depth, in fathoms, + flat living oysters

Nature of bottom, in sandy mud

Direction of surface current, flats

Force of surface current,

Direction of bottom current, #23 + 24.

Name of vessel, ~~Paranagua~~

Name and rank of commanding officer, Oct. 2 + 3

Got one broad 1925

Name and position of observer, ~~Paranagua~~ I sawed Uca

this afternoon for ~~Paranagua~~ lost picture of ship. flattened him

out with tripod head. Showed

same place as morning collection

but in afternoon 2:30 P.M. with high tide

Oct. 6 1925 9.15

REMARKS.

Arrived 12.30  
3 large hawks over mangrove mill.

all quiet by 2. Birds etc  
perched over trees after leaving house at  
house } 2:30 at  
after coffee end of game }

3:15 To Praia

Praia Grande

6:15 p.m. started back got to  
hotel about 10.30 with 3 others  
anyway one at mangrove mill for  
shrimps & other prints & last print  
to east. Praia da Enseada

# Oct. 6 - 1925.  
"25." Air temp. ~~67~~  $67 \frac{3}{4}$  °F

Got a Lepidopatra and 1 tiny  
Hippa on beach in front of  
German House facing light house.

Before that ruler got 3 molluscs  
at the end,

At house got some shells.

At Praia Grande got lot of  
hippas few quite large but  
not as large as natives claim  
they come.

And a few amphitrites, Praia  
Grande is across two points of  
land behind house.

Sea was very rough & high due  
to high winds night before really  
should have made trip but in  
town didn't realize force of surf on  
outside of island.

#(26) Oct. 6. Children at  
mill got me 2 crabs &  
several shrimps from stream  
back of mill. One shrimp

very small worn in life looked  
like the backs of fronts from

crabs of same number;

all over I saw too.

The largest of the Srichodadhi  
was generally (only one alive  
near c. m.) a raw sienna

color on surface due to  
spottings & mottlings broadest

& narrowest down, zone on other

margins of all appendages well

in large at depth of fathoms

only; fine bottom & narrow by, but

in case of legs extend back on

other in hinder face & joints

except for distal end of carpus

carpus & i. ch. & tibia almost all

time of surface current distal 1/3 & posterior higher

darkish however nearly uniform

raw number little lighter on

loose margin eye stalk shorter

than in middle of body, mottlings have

more distinct border a maroon color

than what I often said above specially

in eye stalk

Other shrimps show strong V

abdomen, on causal examination

of dead specimens next day.

Sir Francisco d'Almeida

Santa Catharina

#27.

Ponta da Cruz, São Francisco

REMARKS.

Am 1 -

Oct 7 morning

Oyster formating

Point of land north of town

hard & stony sea.

Large rocks in most parts.

Covered below high

water line with oysters.

Got 2 holothurians

One star fish.

Oysters & oyster crab

2 Gebras & pc. of

rock.

#27

Density = 1022.2

Temp. 72.5.

1+2 at

stack = dinner crabs

2 = abalone

3 = fish 1+2 above

4 eggs broad side & wedge head

5 thick & dragons blood sea

saline red rock

6 shells shiny grey

7 sea 90

80-100 oysters you will

buy of meat & juice cup =

6 high & 6 1/2 cm wide overall, just

meat off, left meat 2 1/2 cm from top

Instrument used edge of cup meat small & very

Current number of observation edge of cup meat small & very

20th to taste. oysters hard to open

Date, very irregular.

Locality, in about 90 oysters found

Bearings found 4 prs. and 3 1/2 pairs of

which one or two were in cracked

Time of day, and there are one with the

an open hole. about 12 crabs

Temperature of air, almost 90 oysters

mixed my hands getting them opened

Surface of water.

The interesting thing is that

always found male with each

exception female no exceptions!

among all staff found a male

Nature of bottom, mixed oysters

Direction of surface current.

Wind hr. of ledge is 9:00 at least carried

Force of surface current,

when back like monads are

very help less outside of oysters

do not seem to be able to balance.

Name crew, always seeking to hang

in to the things with hindmost legs.

To whom service attached.

Name and rank of commanding officer.

Name and position of observer.

Oct. 8, 1925 #s 28, 29, 30

REMARKS.

Dept. at 5 a.m.

Arrived at mill  
#28 Op. 326 beach  
gradual

near fort 3<sup>rd</sup> floor  
level 11.

air 72 $\frac{1}{2}$  3.50 p.m.

water 71 high tide

Dept. 8 a.m. 3.50 p.m.

Prainha Enseada

28 water sample; Arthropods

#28 molt from rocks at begin-

of Prainha { #28 Density = 1023

to top meristus. Temp. 73°F

facing lighthouse.

Sao Francisco Sta. Catharina Brazil.

#27 at mill again

Collected myself once

got another net and the

water, rare [fins] project me

in way to Praia [litter]

Praia Utubu [litter]

Sao Francisco, Sta. Catharina Brazil.

Some egg. brought to dry

fern Concomi

Prainha Utubu [litter]

water from Riberao [litter]

TEMPERATURE RECORD.

#30 Oct. 8, 1925

Instrument used

Prainha ditches near Praia

facing light house

Date.

Sao Francisco S. Catharina

Environment fish and mollusk

and jet insects

Time of day.

#31 Oct. 10

State of sky.

Temperature of air.

75° a.m. in my hotel

surface of water.

window sill.

at depth of bottom.

in spring = 61°F

Depth in bottom.

in eddy of stream 61 3/4°F

Nature of bottom.

Direction of surface current.

Force of surface current.

On window sill in shade

Direction of bottom current.

Force of bottom current.

sun at 12 noon

Name of vessel.

To what it is attached.

Name and rank of commanding officer.

Bank of Rio Negro, a/c R.R.

Bridge where boat of R.R.

zoring is tied. Gr. insects

all. Concomi. Didn't even

get a fish on hook and line though

the rain many.

#31

Used small barge net. #32 made to mesh in  
Oct. 12 Sunday

REMARKS.

Collected along Ubatay &  
Río Negro on Río Negro,  
Sta. Catharine side of  
river, entering above R.R.  
bridge. Many insects &  
a turned bank; did  
better for small spring  
in bank where I fished. Sat  
on way back at Hotel dug  
into a termite nest, hard  
sand & dry mudrock  
got a few specimens for  
sift. It's not the stuff he  
goes by it may be due to  
him. Piled up a few big  
small stumps & collected  
samples of ants present  
were mainly two species of  
ants in some stumps;  
have bottled lots from each  
stuff all together (but <sup>not</sup> ~~not~~ <sup>separated</sup>)

In afternoon collected  
in holes in bank sand  
for which days had been  
dug. Found lots of the  
water in the rainy season  
nowhere. Found live fish  
got over <sup>Current number of observations</sup> these species I

Date, <sup>Temperature record</sup> <sup>#33</sup>  
Locality, <sup>Bottom</sup> <sup>depth</sup> <sup>at</sup> <sup>water temp.</sup>  
Bearings, <sup>bottom</sup> <sup>at</sup> <sup>depth</sup> <sup>in fathoms</sup> <sup>water temp.</sup>  
Time of day, <sup>state of sky</sup> ; of tide.  
Oct. 12 Monday

Put our fish-trap last  
night, wanted it about  
8 o'clock this a.m. <sup>water temp.</sup>  
shore <sup>bottom</sup> <sup>in fathoms</sup> <sup>water temp.</sup> <sup>66°</sup> along  
Río Negro, Parana side

Nature of bottom?

Female that carried young here  
with antennal flagella & one st. like  
force of surface current.  
Dactyle pale turquoise blue beneath, first  
pair above top carmine dark, black bottle  
green <sup>force of bottom current</sup> half of finger dark toward the  
leg Name of vessel?  
abdomen shading out to rest of sea green  
To what service attached?  
black <sup>force of bottom current</sup> <sup>name</sup> <sup>date</sup> <sup>name</sup> <sup>name</sup> Unhurt between  
day & ornateens color which on  
most joints of legs & base of telson  
blue in <sup>name</sup> <sup>date</sup> <sup>name</sup> <sup>name</sup> & black on protodi  
dactyle  
Saw two joints of 3rd ray top blue.

Second specimen with only one dactyle  
fistula & hind joints white rest grey  
top & glaucous blue beneath, abdomen all  
blue beneath streaks brown, max.

Oct. 12 #33 cont'd

REMARKS.

Abre card & abd much alike  
Blue & myrtle green from bottom  
to sides & on cost.

Picks them up by one leg & they play  
(dead all spread out).

Largest spec. instead of blue the  
flame purple stand of blue above &  
royal or under parts - stem  
and bottom practically white with  
faint traces of purple.

Articulating membranes colored

Carapace black of entire with

yellow under in high parts bands

Indian purple; max part of abdomen

sort of buff color. fingers distally

purple purple. Zornis says he has

seen quite red ones.

Oct. 12 #34 collected

with dip net through 1/2 dm.

Zornig's Gardner 2 years.  
Got out few fish & small batholes  
Tools films by photographs. Worked at  
Zornig's wonderful under United museum at  
Conceito fine little place & some rarities. Brazil  
is so little known, that you never can tell what  
will turn up. Birds, mammals & stone implements

→ (1) got most a dozen different  
uses of gold work to do.

A fine collection from our guests. Pictures of manu  
with Rio Negro. Staff & mounted stars at Monin.

Not having in Rio the go.

Oct. 13 #35 { Color still  
recognizable Feb. 27, 1940

TEMPERATURE RECORD.

Fish pot. Carapace &  
Abdomen of Regalea dark

Instrument used. Instrument used.

of grass green with a  
suggestion of Parrot green?

Membrane bet. abd somites  
maroon or liver brown.

Locality. Seas marine or indigo blue

Bearings. Current of delta grass green

little on distal portion of ~~abdomen~~ probably  
nefar.

Time of day, tide, surface of water, etc.

Under part of bottom, max faintly with  
blue & legs & last 2 or 3 abd spots

faint with green & purple like worn  
daggers with eggs with poor legs

Direction of surface current. Direction of surface current.

Spring, winter, or summer tides.

Force of surface current. Force of surface current.

Pick up sea up by me

Direction of bottom current. Direction of bottom current.

Name of vessel. Name of vessel.

To what service attached. To what service attached.

May be a dozen casbs.

Name and rank of commanding officer.

#36 Oct. 14/1925

at water rapids above R.R.

bridge at Rio Negro, Parana.

#36 Oct. 14/25

In the water in weather as  
not use.



#40

## REMARKS.

Oct. 18 Sunday

By Hacienda Marimby  
with Werner, Weller & rest.  
Got ample dryen aeglea &  
number of small larvae  
Air. 68 water 70°

#41 (Temp)

Oct. 19 Monday with  
Middelkoff to rapids  
beyond. Drifted along  
33 miles in rain return.  
got 9 Aeglea.

Air. 67° water 69° F.

Get weather Bureau data

Oct. 20 #42 Tuesday

got about 2 doz more  
Aeglea a few as  
large as any I've seen  
but still smaller than the  
folks here claim they grow.  
2 & 3' out for telephone post  
quite larger & 1 mile near large size  
not as much as 1/4 m shorter in area.  
1 3' + 1 9" small & the size diff if any.

Oct. 20 Black Bonito { 3.000

White } 5.000

+ shark } 1.800

## TEMPERATURE RECORD.

Fish pot 2.000

Dentist

10.000

Instrument used.

Auto &amp; dentist + Parer 9.000

Current number of observation.

#43

Wednesday 22 Lee Goo

Rio Negro fish pot depth

Bearings.

Thursday 22 Last day

Time of day, ; of tide.

in Rio Negro. got one

catch less than &amp; 1 large

Aeglea larva largest ever

yet seen at depth of fathoms,

of bottom,

Depth, in fathoms.

Nature of bottom.

Direction of surface current.

Force of surface current,

Direction of bottom current.

Wides & deep water  
currents & tides  
strong & N  
currents & N  
wind & spring tides  
some local  
currents

belongs to #45 tiny portmud in  
name of vessel.

To what service attached,  
crimson & yellow red with crimson  
spot & stripes on parallel on back  
at middle of carapace, at black green  
spot marked with crimson, leaving out part of  
carapace, hard & colors except for jet black  
eye which looks like orange, lateral stripes  
run over carapace & abdome which on to lots of  
angular scales, all stripes with glass =  
hanging crooks which are arranged in  
between rows red with white next at which  
abdominal scales

✓ #45

Ponta da Cruz  
REMARKS. São Francisco  
Sta Catharina

Oct. 28 wednesday  
Low tide at about 7 a.m.  
Went back to where I got Gobies  
before to get some pictures &  
found such a number & especially  
chance to study them that I have  
decided to spend a couple of days  
here. Got several Gobies.  
Smallest one just half

each abd. minute transverse lines  
part half =  $\frac{1}{2}$  inches

Legs colorless

Gobies, maybe ochraceous before  
becoming more brown with a touch  
of olive above & before groove light  
below under groove almost white as  
in lower half of fingers

in larger non breeding specimen, brown  
bands are wider & when abd. is extended  
barely see colorless areas, tetrad  
distal brown bands brownish reddish brown  
Carapace of each with brown saddle above  
in part 4/5 light nearly clear on sides  
& before saddle stomach a dark greenish  
brown (? brownumber & olive) depressed area  
a large broad area of pale skin off  
rest of olive yellow legs at distal ends  
of joints & on upper margins with a narrow  
line of vermillion. Larger specimen very  
brown or brownish of Carapace almost  
the black, at least the dark of Vandyke brown.  
greater part of epiphysis colorless, only  
part  $\frac{1}{2}$  or  $\frac{1}{3}$  brownish Carapace above  
same dark brown Gobies like breeding  
carpus like hand, manus like legs.

Instrument used,

Catched per lot of soft rock & got  
quite a number of Gobies, in first  
rock lot stock triangular about a foot in  
a side & forming rim in the small part of  
6 inch thick got 4 pairs (8 specimens)

Then chopped open a more long contoured  
rock, received a nice brown female  
seems to be in full eggs brown except  
for small hole in water outside of plug  
Temperature of air,  
Surface of water,

Depth in fathoms,

Nature of bottom,

Direction of surface current,

Time of day, of tide,

State of sky,

Temperature of air,

Surface of water,

Depth in fathoms,

Name and rank of commanding officer,

Date and position of observer.

#45

#46 (29th Oct.)

REMARKS.

Ponta da

Cruz

Sta Catharina

Combined with 45

Temp air at 12 noon  $71\frac{1}{3}$

water incising tide 71.

Good lot more Gehias

Can stand very stagnant water in which all crabs die naturally in pockets & rocks where they live must become very foul in course of tide.

Found 4 small red shrimps

crayfish living against smooth wall of tube. The ped is quite pale intense yellow ped. & the lateral stripe across the epimera is the strongest & most conspicuous.

There were several green crayfish of which I have color noted one. Hands & the dark of little green & a green speckled.

Finger tips & a little along cutting edge

of chelae very hairy, hair being yellow & black

flagella where they attain + surface finger same color. Chelae black

post. 3 fourths of abd. similar

white & large red green on a

porcelain white ground but not clear or red

Only in case of Cara & abd. unlike chelae color

is in shades & quite irregular. Post margin of

abdomen tail joint white tan just before their touch

of blue hairs) then bottle green.

Of the tiny fiddler crabs only

saw 2 or three holes for

1 male + female

& about within Smagru 3 spec.

Of the Mysidias the abd. of

most is bright orange

orange

legs white, chelae with flesh &

light pink or vinaceous pink.

Other legs of stages white; legs

quite transparent, stomach

shining particularly on sides,

bet. slate + indigo many have

carapace + central third of median

dorsum of abd a sort of slate gray

not noticeable in field as it is

white (sky) after some hrs.

hairs on fore part of carapace dirty

green buff

surface of water.

Temperature of air

at depth of

fathoms

of bottom.

Get one instead for Malacca.

Shrimps with toothless rost =

46B mouth transparent,

most conspicuous thing was

apple green stomach above which

Carapace has coloration by areas

which on sides were faint red

or orange those above with

scattering of red spots, eyes blue black

legs blue like water milk. Chelipeds

a maybe maxilla ped, among the heart +

anterior limb with darker red + some few

blue spots below distal margin of ante-

limbs anteriorly going red (dark)

General red flecks = fatty

dark red = fatty with dark

blue spots = orange about

or outside.

Name and rank of commanding officer

Name and position of observer

This shrimp

like all found

in Burrows.

Some orangans

in cracks or under

## REMARKS.

# 47 Oct. 30

Went back & collected  
in rain.30 fiddlers out  
of sand near sea  
just one little place

Finger of large delta  
white, outer side of pole  
& carpus + very little  
distal flanked with  
scratches, in size of the  
about lemon yellow which  
is color of legs; back slatey  
& grey mottled.

\* note above on Green crangon  
black spots as indicated.  
at 2nd & 4th spine  
near hinder margin before articulation.

# 48 day  
large day before  
Nov. 1 ship miles

TEMPERATURE RECORD.

Oct. in San Francisco

Instrument used,

Current number of observation

Date, + R.R. ditch

Locality,

Bearings, Fisherman SW.

Time of day,

not tide.

State of sky.

Definite wind with me he

picked up lot of stuff I had

gotten before but I saved it

as I didn't know what to do with it.

at depth of fathoms.

as I didn't know what to do with it.

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer.

Thurs day Nov. 5 {Fine day} {Sunny day}  
#49 - ~~Remarks.~~ Palaeomys.

Collected at rocky point  
at end of Praia da Sora  
toward bridge but mostly  
on rocks at end of  
Praia [8<sup>30</sup> a.m.] Air. 71° F.  
Water sample Water. 71½° F.

Tide nearly at just before slack.

3 Palaeomys ran from in  
shallow water about rocks.  
over sand water about a  
foot deep; just happened

to see them moving as I picked

up crabs. Day & see apparently

near sand bottom.

1 of Palaeomys was in sea  
weed with amphipods, when I  
scratches at weeds he backed  
out quickly him + the two with red  
amphipods thick in uva. Syngna  
Platypus

Two <sup>tenero</sup> adults are in road home from  
Praia, other among leaves of tree  
above rocks.

On way back collected graptoids on sides  
of sewage? small stream into which tide  
backs. got lost all night

Palaeomys faintest kind of hairs

tiny TEMPERATURE RECORD.

Instrument used ~~Hand~~ hand under margin  
of abd. 2 miles, with 200 of bottom

Current number of observation

Date 12-1-73 3d

Locality ~~Hand~~ mixed with

bottom sludge. couple of fine lines

Bearings, ~~Hand~~ mixed with

Time of day, near Dinda margin

State of sky, ~~Hand~~ mixed with

Depth in fathoms, tail also

margin with color like abd

2 miles + carapace stripes

Nature of bottom, ~~Hand~~ mixed with

Temperature of air, blue distal

margin of points, palm +

force of surface current, quite a cross

current and of orange streaks

Name of vessel, ~~Hand~~

To what service attached,

abdomen of last 3 abd. 2 miles with

orange shot band of which is where

muscles articulate.

Name and position of observer

Lost a nice vial of ascidians,  
& though I went back just before

dinner and looked high & low

couldn't find it.

#50 REMARKS.  
Grade with F.F.  
a.m. 4 F.M. fish  
water for mudlog + dug  
for legen.

Mujer      Volto      Vuelto

Bernards = Lai

### State of sky,

Temp

th, in fathoms.

ure of bottom,

6000000000000000

### Direction of bottom

### Force of bottom current.

NAME OF VESSEL,

Name and rank of comm.

Name and position of observer:

— 1 —

✓ About ~~hundreds~~<sup>REMARKS.</sup> miles on  
way to Bahia.  
Country is like Kansas  
prairies flat & undulating  
but very nice, & green & high  
flat well watered; trees appear  
in groups & may have been just  
planted. People &  
common people seem more upland  
than men of Brazilian or do I  
imagine it.

Feliz. is Italian of what did  
he say <sup>with 18</sup> years less? Old sea  
captain and has bridge a house  
Pay not us blazes.

Boys & many men run around all  
day with long linen dusters of mask  
~~of~~ duck.

Grapes under rocks &  
#56 Nov. 16, 25 contained  
in seaweed & mostly  
in water or where there was  
water tide pools etc.

Syldvia common over rocks  
some very large ones among  
them, got one or two  
good specimens

~~TEMPERATURE RECORD.~~

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day,      of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of      fathoms.

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer

Name and position of observer.

Nov. 13 Friday  
REMARKS  
#51 5.35 - 5.50 a.m.

#51 (= #1 Instituto de Pesca)

2 small nabs one with  
maddie frame esp.  
1 isopod + several Pasiphaea

1 isopod Isopod

2 crabs 1♂ 1♀

5 Pasiphaea Pasiphaea

1 Xiphopenaeus Xiphopenaeus

1 Peneus setiferus

Peneus setiferus 5

specie

51 } Crustaceos

52 } all combined

53 } number of Pasiphaea

54 } Chimaeras had

shells in stomach

Callorhynchus galloensis L.

"Gallo-Quimera" 1754.

## #51. TEMPERATURE RECORD.

Instrument used, C thermometer on ship.

Current number of observation, #1.

Date, Nov. 13 1725-

Locality, E. Isla de Flores

Bearings, (Opposite 6 miles)

Approximately

Time of day, , of tide,

State of sky,

Temperature of air, 19°5

" surface of water, 19°5

" at depth of 7 fathoms, 19°5

" of bottom,

Depth, in fathoms, 7 braras 7

Nature of bottom, barro (mud.)

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

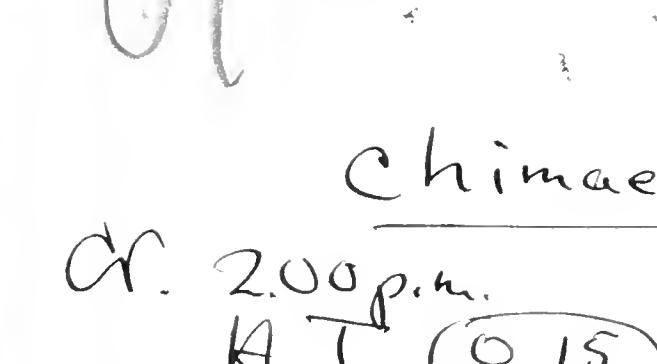
Color of water green

✓  
REMARKS.

Benthos (calcareous)  
Coronaria +  
Forichthys  
(mid bottom)

Panama Canal

Carine and  
yellowish  
bases of rocks  
in spots. white  
distally



Chimaera

At. 2.00 p.m.

A.I. (8.15)

Sample of water saved

#52 = (#2 Inst. No.)

TEMPERATURE RECORD.

Nov. 13, 1925

Instrument used,

Current number of observation,

Date,

Locality,

Bearings, E.N.E. Isla de Flores  
(aprox 7 millas)

Time of day, 9 a.m.: of tide.

State of sky,

Temperature of air, 22°.0

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 7 1/2 <sup>19.5</sup> ~~brazas~~  
~~burro.~~

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer

Name and position of observer,

Wade.

#54 #4

REMARKS.

Hora 3.

S. Orla de Flores (about  
4 mi.)

8 fms. band

Air 26° water 20° 5  
Verde.

#54 Sta. 5 (#55) ~~#55~~

S. of Isla Flores

about .5 miles

band

Air. 26 water 20°  
Verde 2 P.M.

#55 Density 1006.51

Temp. 70.5 or 6°

Cloudy & windy  
70° F.

#53 = #3,

TEMPERATURE RECORD.

Nov. 13, 1925

Instrument used,

Current number of observation,

Date,

Locality, N. E. Ila. Flores  
Bearings, (approx. 5 millas)

Time of day, 11 ; of tide,

State of sky, cloudy

Temperature of air, 24°.

" surface of water,

" at depth of fathoms,

" of bottom, 19° 75°

Depth, in fathoms, 7½ brusas

Nature of bottom, banco.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Wata wla Verde

#56 Nov. 15, 1925 #56 Excursion Train

Hotel failed to take me at  
10 am I asked called me at 2 p.m.  
 & I had all most of my pack  
in car. F came by in taxi at 5 to 6  
P.M. wrong train just then changed over to  
a very crowded one. These people hold seats  
right. left & it's hard to get an unoccupied  
one. Ex. all girls it seems find very few  
good looks men look up. Wish in a picnic  
Don't know when the train starts but there even  
is between sections standing on the tracks.

Such a jolting & I can't understand a word  
what is said. Can we are on sort of  
bus or car from folding seats offered a  
dinner? It must be if we are beside one  
is behind a little counter. I think one.

The young people are walking up & down outside  
waiting in the car. Skirts aren't so short as  
in Brazil.

A priest with black hat accompanied by a Brazilian  
had green ribbon hat. Every body at least all  
men clapped hands when he went by & the men  
moped & nodded & looked right & left of course.

The men black shirts are common here as in Brazil  
In the rush & being n'til got cut on my head instead

& lost. Glad I dressed & took my old clothes &  
shoes along. So would have let me stand  
the worse. This is a regular Sunday excursion

in every sense of the word.

There is a special catholic service on, two  
girls have red green ribbons around  
head. was note in paper about arrangement

in this day. Arri. at N. S. J. 11 a.m.

To auto to town. 30¢ each, walked  
to Burnett's gas. ate lunch 'cheered for  
a ride with taxi to Punta del Este

wanted 3x 4 + 5 \$ ea. higher than next  
one. tried horses & wagon but 105 again

Finally asked police man outside P.  
church & told us & a man at 100 per

head & return & his hr. stop. Punta del

Este looks like a good place, & we will go  
back for Fri. Sat. & Sunday of the week.

got a few things.

#56 Punta del Este #56

Instrument used  
got a few amphipods at the dock

Current number of observation Density 1014.00  
Time of day Temp. 70.5°<sup>6</sup>

Came back to church. Services going  
on finishes, most people filed out.

F. wanted drinks we went across park for  
upstream Uruguay club was dancing. back

in park fellow was speaking. other time  
uttermost. Couldn't by any pictures,

but with Rio beyond most come in  
another way. Dunes houses with thick

thatch (Can. adobe) till part of

country by percentage of house this.

Sights at Punta del Este - maldonado right.

more golf course & I don't today 10th is  
cuse fortunately

Surface of bottom

Said Car and when I told him I was  
not going to be in water for water sample

at about 3.33 tide just after turn  
time well marked. Broke thermometer

sold hotel cat before I learned English  
last three months & thought I was some

A. H. Smith had written he knew no English  
himself and why he doesn't know all  
now. Good of him to try & when you write to  
me & make her glad if he is.

On hair I'd. would play in gear, crowded  
as drivers. Some drivers. Hair was due  
to start back at six hasn't started

yet at 7 p.m. Beer 50¢ Boy 20¢  
Auto 60¢ 7 the 39¢  
go back 50¢ into 10¢ paid for  
myself.

# 57 Nov. 16, 1925

REMARKS

Rtd to hotel from Maldonado at  
11<sup>30</sup> left again at 12<sup>30</sup> on trawler.  
het was put over in a m but I was sleeping in  
roundly, ab hotel night before I only slept for  
2<sup>00</sup> + 4<sup>25</sup> didn't wake me till 2<sup>5</sup> mns &  
for I am thankful did we sleep night before  
have everything before I went to bed. I  
made me miss a couple of good tides  
trawlers a.m.

Very large haul of this about  
3 times what I saw on Friday and  
Saved 1/2 dry. Cull out 2 ab  
little else by Corvin & Pescadilla

57 number of fishes 3 9 a.m.

Second good haul ab  
1/3 size of first but  
but = 1 m wide  
one night after other  
water 20 fms. round  
bottom five arms each  
muddy. = 5 fms. H. I. <sup>about</sup>  
notes in stomach of <sup>9 a.m.</sup>  
contents spangled <sup>= Ph. 8.4</sup>  
sharks 2 = fishes, skates etc.  
Pescadilla small upward  
& Pampilla = Pustulosa  
Corvin = shells.

# 57 Density

70.5 orb

10+1.1

TEMPERATURE RECORD.

= 29 cm. long.

Instrument used  
Corvin number 2 observation.  
Maray had 1 dry. Pescadilla  
inside 29 cm. long.

Shark that shark round had  
shrimps inside

Pescadilla same Tremoleras  
lets me the glut them rebar with  
Perry Readiness <sup>of tide</sup> reason.

Corvin eat shells like rat fish.

Palometa eat shrimp.

Skate worms of which a few  
fragments were saved.

# 57 Applies to two  
hulls

Nature of bottom,

Direction of surface current,

Force of surface current.

Direction of bottom current.

When I hauled Chingales and  
ice (out of box parked in ice)  
in one of large up foul two  
pieces of what I thought was  
spun around mouth though members  
of bands like a lining of mouth  
had rotted off. Name of  
waste basket had thrown it to me  
side later when I got to bottom of  
box realized what I saw another in ice  
that of the larger parasitic worms when alive  
were thin semi transparent (translucent) bright  
orange marks made me think of either  
"glass larvae" or cels.

#58 Nov 17, 1925  
Nov 18<sup>th</sup> REMARKS. S.E. Ponton Piers  
Banco Ingles 13 m.  
7 a.m. 7 1/2 fms. 13 m.  
mud. Density 1012.10  
70°5

Air 20° Water 20.25

Water green.

= Sta #1 of first Beaufort day.

B.I. = 8.8. 530-6

Tow net haul solid mass  
ctenophores, intertice with  
haul. From large shark took  
several few in. hinder dorsal fin  
S.C. of mycromia came  
up ~~it~~

#59 Cut open number of dog  
fish got from third & fourth  
+ middle + 1 young dog out of ground  
specie female 2 gills two crabs found x 2 pairs  
molted specie out of another  
" 2 spots of crab legs out of  
another.

Dined Corvina stomach full of  
eggs.

Pcs Bryozoa / ft / ft / other boards

#59 = (#2) Nov. 17, 1925

9 a.m. S. Ponton Piers Banco Ingles

(Approx 10 miles, 7 fms. mud bot.

Air 20° Water 20°25

TEMPERATURE RECORD.

#60. (= #3) 1 p.m.

Instrument used.

S. Ponton Piers Banco Ingles

(approx 15 m. N.E.) 8 fms.

Locality. Barro

Air 21° Temp. Water 20°25

Bearings.

#61 (#4) 2 p.m.

Instrument used.

E. Ponton Piers Banco Ingles.

8 1/2 bruzas Barro

Air 21° Surface of water 20°5.

at depth of 6 fms.

Verde

of bottom.

Got her Corvina the great

Nature of bottom.

One at first haul out

2 1/2 feet long at last

Time of surface current.

Haul 4 feet long.

Time of bottom current.

Larger spotted sharks

had much digested fish prey

in stomach, of longer fish in

all but one. In none were

fragments recognizable.

Sort of shelly or very broken

material.

# 62. Punta Caneira  
REMARKS.  
Nov. 21, 1925

4.30 pm. for crabs  
amphipods & isopods.

The distribution in terms  
of length of gill slit.

Large size of gill slit.

~~Diagram showing the distribution of the gill slit in relation to the body length.~~

# 63. Nov. 24, 1925 H.I. 8.41

5.45 - 6.30 a.m. Towed  
already to ~~water sample~~  
light Density 1013.9 Temp. 77.5°  
145.

Shark 4 3/4 long  
1st gill slit 5/8 from throat  
beginning of pectoral nearly 7/8  
beginning of dorsal 3/5  
upper lobe final 1/3  
base 1 + 1/2 + 1/3 + 1/3  
Only one little signal  
animal got black fish  
shark.

# 63. (#1).

Nov. 24/1925 TEMPERATURE RECORD.

hora recta

E. Isla de Flores

Current number of observation.

sobre banca

Locality,

Bearings,

Air 69° Water 20°

Time of day, ~~verde~~ <sup>of tide.</sup>

State of sky,

Temperature of air,

# 64 (#2) surface of water,

" at depth of fathoms,

Nov. 29/1925. f. bottom.

Dura = marea

Nature of bottom,

N.E. Isla de Flores

Direction of surface current.

Force of surface current.

approx 6 millas

Direction of bottom current.

otico braga.

Force of bottom current.

Name of vessel,

Argo 20° water 20° 5

To what service attached.

Name and rank of commanding officer.

Vergel.

Cut over oyster dredge twice a 6 cm.

closure of other hand, cut over oyster

dredge in 7 fms. for 2, 3 10-15 min

hours. got very soft mud, worm tubes &

clams, & shrimp (*Xiphopenaeus*).

Name and position of observer.



#71

~~Dec.~~

REMARKS.

Dec. 1st. 1925

In little tributary to  
Anojo Miguelito in  
the Brads. Tried to catch  
big Neglea with hook net  
& meat but caught only  
a little one, main stream  
very muddy. Tributary  
clear & very shallow.

Temp. of main stream | 28.5°

got about 3,000 bottles nearly  
full all sizes from medium  
& small but large ones in  
they are said to exist I didn't  
find.

Went with Tremoleras.  
Neglea thick under grass &  
leaves in water especially plentiful  
probably due to luncheon, man  
remains thrown in stream  
by picnickers.

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, . . . . . of tide.

State of sky,

Temperature of air,

" surface of water.

" at depth of fathoms.

" of bottom.

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

## REMARKS.

## TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom.

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

### State of sky.

Temp

### Nature of bottom

### Direction of

### Force of surface current,

### Direction of bottom cut

Name of vessel,

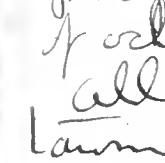
### To what service

Name and rank of commanding officer

REMARKS.

Two largest grapsoids from  
Ilha Graciosa Aug 27, 25

backs a slate black with  
numerous markings and  
lavender gray patches  
branchial region where  
thighs of hinder legs fold in  
over them eye stalks and  
legs which I could call  
a mahogany red with black  
iron spots? thighs (meri)  
of all but last two pairs  
of legs with whitish spot  
may be pearl gray. Red is  
almost crimson & orange then  
shading off in bases of plates  
to saturn red to primrose  
yellow to nearly white  
red, saturated



→ primrose yellow ← white  
distally

Turned down part  
bet. eye stalks real dark  
deep red like eye stalks.  
Propodi of walking legs sort  
of orange yellow color -  
all joints of legs of 3 small  
lauing except meri which are

Color of back this is more  
umber than is large spec's  
3 after meri not last how  
farth more white, flattened  
than in large specimens

Chelipeds colored same  
as in large ones. Under  
parts yellowish like  
hands which color  
runs over to just half

↓ under side of meri  
of walking legs & entire  
under side of chelipeds

Adelie penguins  
seen at Cape Horn

No. 57

Aug. 23rd

Pieces de Uruguay



8/11/19 Chec #200 { 25 books sent to  
the library as many more were  
sent by air mail

Kurt Faber: Rund um  
die Erde

11 P 92 left  
gives on

water & under rocks  
Canvas buckets -  
**2** already

versus  $\frac{1}{2} \text{ mole}$  gel elements

chest sprays 1283  
 live line?  
 of 2; 3 gal. tanks }  
 best equipment }  
 boat hedge { Canyon  
 river & traps mouth  
 Books, photo, compass,  
 + few extra clothes  
 standard & growth  
 traps, no suture?  
 dry gear.  
 tools { several live  
 Books nets  
 mine, nets  
 tip nets with hinged  
 handle + several nets  
 to bottom on lids etc.

M. McNeur  
Étude de la Mer  
Faune et Flore  
de la Manche et de l'Océan.  
Texte par M.-P. Verneuil  
Preface par M. Yves Detugé.  
(Nouvelle Édition).

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1924.

